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Science and Weapons Daily Review

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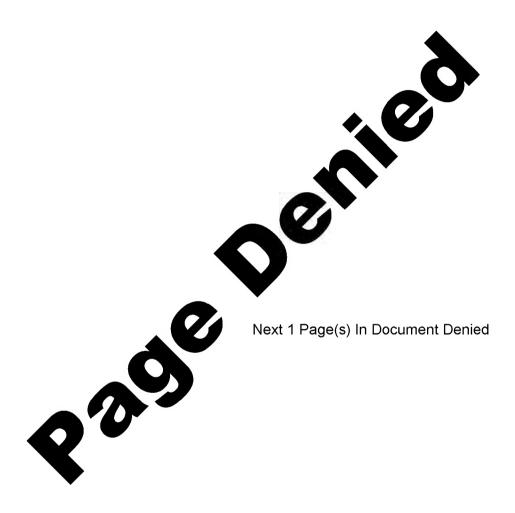
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	A number of factors suggest that the Soviets may propose a	23/1
	mutual US-Soviet freeze on producing highly enriched uranium and weapons-grade plutonium. Such a proposal would be	
	consistent with other Soviet efforts to halt the US Strategic Defense Initiative and slow the US strategic modernization	
	program.	25 X 1
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5	USSR: MASSIVE HERBICIDE PURCHASE	25 X 1
	The USSR has reached an agreement with the United States to purchase in 1986 50 million dollars worth of a herbicide for	
	use in grain and sugar beet fields. This herbicide can treat up to 12 million of the 39 million hectares of grain and	
	sugar beets allocated to the Soviet intensive technology program.	
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USSR: NUCLEAR MATERIALS FREEZE MAY BE PROPO)SED	
A number of factors suggest that the Soviets in concept of a mutual US-Soviet freeze on the puranium (HEU) and weapons-grade plutonium. nuclear reactors producing plutonium for their These reactors are aging—the oldest is 37 year years old. Most, if not all, of the reactors use	roduction of highly enriched 25%. The Soviets have nine to 13 nuclear weapons program. rs old and the newest is 21 graphite, which has a	X 1
finite life in the reactor because of radiation-in Soviets do not repair or replace the graphite, the shut down their oldest production reactors in the Repairing or replacing the graphite would entain reactors, reactors would be expensive at a time when Garagana to increase the sector of the sec	hey probably will have to he not-too-distant future. 25X1 I a lengthy shutdown of the Building new eneral Secretary Gorbachev is	l
planning to improve domestic economic growth		X1
In contrast to the plutonium production reactor are modern and could operate for many years. for both warheads and naval reactors. The Unifor naval reactors; it has not produced HEU for plans to restart in 1986.	The Soviets are producing HEU ted States is producing HEU warheads since 1965 but	
Comment:	25)	X1
Comment.		
We believe that the Soviets may propose a mur- HEU and weapons-grade plutonium at the Gene Soviets informally proposed such a nuclear mar- Khruschev era and they may believe it to be in concept now. It would build on the publicity starms control proposals by appealing strongly to moderates in the United States and Western Eu- effort to halt the US Strategic Defense Initiative strategic modernization program. Such a treaty cost of building new nuclear reactors for produ	eva Arms Control Talks. The terials freeze during the their interest to revive the urrounding their earlier of antinuclear factions and prope, thus aiding the Soviet e and slow the US y would save the Soviets the ction of weapons-grade	
plutonium and would force the United States to currently operating reactors, one of which was	stop production in fi <u>ve</u> 25X	(1
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We estimate that the Soviets have produced more HEU and plutonium to date for warheads than has the United States, giving the Soviets slightly more flexibility in developing their future nuclear forces. Furthermore, because of the deep force reductions proposed in Geneva, the new Soviet leadership may believe that further nuclear force expansion is unnecessary.	25X′
Verifying Soviet compliance with such a treaty would be very difficult. For weapons-grade plutonium, US engineers would have to conduct	
comprehensive onsite inspections of reactors and reprocessing plants. Verifying a Soviet halt in HEU production would be almost impossible, even	
with onsite inspections, as both nations would insist on continuing production of HEU for naval reactors. We could not determine if extra HEU	
were being produced for warheads.	25X1 25X1

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